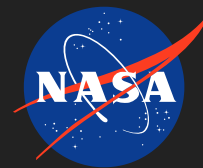


A Community-Driven Workflow Recommendation and Reuse Infrastructure

Completed Technology Project (2012 - 2015)



Project Introduction

Promote and encourage process and workflow reuse within NASA Earth eXchange (NEX) by developing a proactive recommendation technology based on collective NEX user behaviors.

Leverage social network analysis to intelligently extract hidden knowledge from a shared computing platform

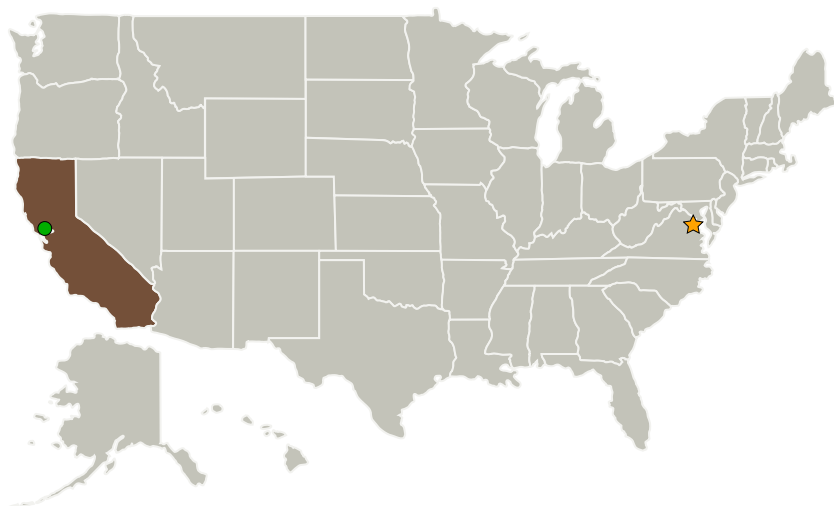
Extend our understanding of Earth science workflow interoperability and composition

Provide a recommend-as-you-go workflow development environment

Allow Earth science community to make more effective use of computational resources

Enable more virtual collaboration through workflow reuse

Primary U.S. Work Locations and Key Partners



Project Image A Community-Driven Workflow Recommendation and Reuse Infrastructure

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Organizations Performing Work	Role	Type	Location
★ NASA Headquarters(HQ)	Lead Organization	NASA Center	Washington, District of Columbia
● Ames Research Center(ARC)	Supporting Organization	NASA Center	Moffett Field, California
Carnegie Mellon University - Silicon Valley	Supporting Organization	Academia	Moffett Field, California

Primary U.S. Work Locations

California

Images



11837-1363097059162.png

Project Image A Community-Driven Workflow Recommendation and Reuse Infrastructure
(<https://techport.nasa.gov/image/1696>)

Organizational Responsibility

Responsible Mission Directorate:

Science Mission Directorate (SMD)

Lead Center / Facility:

NASA Headquarters (HQ)

Responsible Program:

Earth Science

Project Management

Program Director:

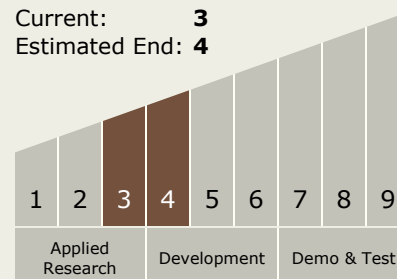
George J Komar

Principal Investigator:

Jia Zhang

Technology Maturity (TRL)

Start: **3**
Current: **3**
Estimated End: **4**



Technology Areas

Primary:

Continued on following page.

A Community-Driven Workflow Recommendation and Reuse Infrastructure

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Technology Areas (cont.)

- TX11 Software, Modeling, Simulation, and Information Processing
 - └ TX11.4 Information Processing
 - └ TX11.4.2 Intelligent Data Understanding

Target Destination

Earth